

Work Order ID 55901

February 4, 2010 8:52:19 AM



Page 1

Item ID: D350-561-141

Accept



Setup Start



Revision ID:

Stop



Item Name: Single Cargo Mirror Assembly

Start Date: 2/05/10 Start Qty: 4.00



Cust Item ID:

Required Date: 2/05/10 Req'd Qty: 4.00



Customer:

Reference:

Approvals: Process Plan:

Date:

Tooling:

Date:

Run Start



QC:

Date:

SPC (Y/N):

Date:

Stop



Sequence ID/
Work Center ID

Operation
Description

Set Up/
Run Hours

Draw
Number

Draw
Rev.

Plan
Code

Accept
Qty

Reject
Qty

Reject
Number

Insp.
Stamp

Draw Nbr

Revision Nbr

N/A

Rev N/A

100

0.00



DOCUMENT CONTROL

DC

Memo

0.00

Document Control

Photocopy bluefile and create labels per PPP D350-561-141 CHG002

Sulzloy

110

QC4- 100% Inspect kits for completeness

0.00



QC

Memo

0.00

Quality Control

Sulzloy

④

120

Packaging

0.00



Packaging

Memo

0.00

Packaging

Identify and pack for shipping as per PPP D350-561-141

~~Sulzloy~~

10-2-4

sl

④

REVB PPP 55899

Work Order ID 55901

February 4, 2010 8:52:19 AM



Page 2

Item ID: D350-561-141

Accept



Setup Start



Revision ID:

Stop



Item Name: Single Cargo Mirror Assembly

Start Date: 2/05/10 Start Qty: 4.00



Cust Item ID:

Required Date: 2/05/10 Req'd Qty: 4.00



Customer:

Reference:

Run Start



Approvals: Process Plan:

Date:

Tooling:

Date:

Stop



QC:

Date:

SPC (Y/N):

Date:

Sequence ID/
Work Center IDOperation
DescriptionSet Up/
Run HoursDraw
NumberDraw
Rev.Plan
CodeAccept
QtyReject
QtyReject
NumberInsp.
Stamp

130

QC21- Final Inspection - Work Order Release

0.00

QC

Memo

0.00

Quality Control

10/02/04

ME

10-2-4

Picklist Print

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Page 1

Work Order ID: 55901

Parent Item: D350-561-141

Parent Item Name: Single Cargo Mirror Assembly

Start Date: 2/05/10

Required Date: 2/05/10

Comments: IPP A11 07.07.26 new issue (DSI9379) EC verified by:JLM

Start Qty: 4.00

Required Qty: 4.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Remaining Qty To Pick	Qty Issued	Date Issued	Status
AN3-4A		Purchased	No			110	Each	2,025.000	12.0000			


Bolt



10-2-4 sl

Warehouse Loc Qty Loc Code

Location

Main Warehouse

ST

2025

104214

466

104291

300

104322

200

104374

200

104625

300

104817

559

AN3-5A

Bolt

Purchased

No

110

Each

1,799.000 8.0000



10-2-4 sl (42)

Warehouse Loc Qty Loc Code

Location

Main Warehouse

ST

1799

100188

188

105057

1611

8

Picklist Print

February 4, 2010 8:51:58 AM

Work Order ID: 55901

Parent Item: D350-561-141

Parent Item Name: Single Cargo Mirror Assembly

Start Date: 2/05/10

Required Date: 2/05/10

Comments: IPP At 07.07.26 new issue (DSI9379) EC verified by:JLM

Start Qty: 4.00

Required Qty: 4.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Remaining Qty To Pick	Qty Issued	Date Issued	Status
AN3-6A		Purchased	No			110	Each	367.0000	4.0000			



Bolt

Warehouse Loc Qty Loc Code

Location

Main Warehouse

ST	367
112082	7
112513	9
112720	1
113149	100
113288	50
113359	200



10-2-4

sl

AN4-10A



Bolt

Purchased No

110 Each

138.0000 4.0000



10-2-4

sl (4)

Warehouse Loc Qty Loc Code

Location

Main Warehouse

ST	138
103962	4
108986	9
111425	75
113422	50

4

Picklist Print

February 4, 2010 8:51:58 AM

Page 3

Work Order ID: 55901

Parent Item: D350-561-141

Parent Item Name: Single Cargo Mirror Assembly

Start Date: 2/05/10

Required Date: 2/05/10

Comments: IPP All 07.07.26 new issue (DSI9379) EC verified by:JLM

Start Qty: 4.00

Required Qty: 4.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Remaining Qty To Pick	Qty Issued	Date Issued	Status
---------------------------------	------------------------	---------------	-------------	---------------------	------------------	-----------------	--------------------	----------------	--------------------------	---------------	----------------	--------

AN4-5A	41	Purchased	No			110	Each	130.0000	4.0000			
--------	----	-----------	----	--	--	-----	------	----------	--------	--	--	--

Bolt

10-2-4 SP

Warehouse Loc Qty Loc Code

Location

Main Warehouse

ST	130	
100089	6	
106605	6	
108672	1	
109061	9	
110844	9	
111650	3	
112933	96	

AN960JD10	651 017 412	Purchased	No			110	Each	0.0000	48.0000			
-----------	-------------	-----------	----	--	--	-----	------	--------	---------	--	--	--

Washer

AN960JD416	031 017 41	Purchased	No			110	Each	0.0000	16.0000			
------------	------------	-----------	----	--	--	-----	------	--------	---------	--	--	--

Washer

D2011-101	41	Manufactured	No			110	Each	31.0000	4.0000			
-----------	----	--------------	----	--	--	-----	------	---------	--------	--	--	--

6" Mirror

13 35
M113064 M113368
M113534 10-2-4 SP
10-2-4 SP 4

Warehouse Loc Qty Loc Code

Location

Main Warehouse

ST	31	
53992	31	

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Shop Packet Print

Page 3

Picklist Print

February 4, 2010 8:52:02 AM

Page 4

Work Order ID: 55901

Parent Item: D350-561-141

Parent Item Name: Single Cargo Mirror Assembly

Start Date: 2/05/10

Required Date: 2/05/10

Comments: IPP A1 07.07.26 new issue (DSI9379) EC verified by:JLM

Start Qty: 4.00

Required Qty: 4.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Remaining Qty To Pick	Qty Issued	Date Issued	Status
---------------------------------	------------------------	---------------	-------------	---------------------	------------------	-----------------	--------------------	----------------	--------------------------	---------------	----------------	--------

D2012-105 +1
Arm

No

110

Each

16.0000

4.0000

①

B 48671 10-2-4 sl

Warehouse

Loc Qty

Loc Code

Location

Main Warehouse

ST229

16

51102

2

52669

14

3

D2012-107 +1
Clevis

No

110

Each

48.0000

4.0000

10-2-4 sl

Warehouse

Loc Qty

Loc Code

Location

Main Warehouse

ST004

48

33585

8

40274

16

46634

24

4

D2012-111 +1
Bracket

No

110

Each

35.0000

4.0000

10-2-4 sl (42)

Warehouse

Loc Qty

Loc Code

Location

Main Warehouse

ST004

35

40148

35

4

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Shop Packet Print

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Page 5

Work Order ID: 55901

Parent Item: D350-561-141

Parent Item Name: Single Cargo Mirror Assembly

Start Date: 2/05/10

Required Date: 2/05/10

Comments: IPP A11 07.07.26 new issue (DSI9379) EC verified by:JLM

Start Qty: 4.00

Required Qty: 4.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Remaining Qty To Pick	Qty Issued	Date Issued	Status
D2012-115		Manufactured	No			110	Each	75.0000	4.0000			

Bracket, Clevis

Warehouse
Location

Loc Qty

Loc Code

Main Warehouse

ST

72

25581

72

Main Warehouse

ST004

3

24559

3

D2022-101

Manufactured No

110

Each

439.0000

8.0000

Spacer

Warehouse
Location

Loc Qty

Loc Code

Main Warehouse

ST504

439

45885

239

50746

100

52325

100

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Picklist Print

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Work Order ID: 55901



Parent Item: D350-561-141



Parent Item Name: Single Cargo Mirror Assembly

Start Date: 2/05/10

Required Date: 2/05/10

Comments: IPP A11 07.07.26 new issue (DSI9379) EC verified by:JLM

Start Qty: 4.00

Required Qty: 4.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Remaining Qty To Pick	Qty Issued	Date Issued	Status
---------------------------------	------------------------	---------------	-------------	---------------------	------------------	-----------------	--------------------	----------------	--------------------------	---------------	----------------	--------

D3629-1		Manufactured	No			110	Each	33.0000	4.0000			
---------	--	--------------	----	--	--	-----	------	---------	--------	--	--	--



Bracket



10-2-4 sl

Warehouse Loc Qty Loc Code
Location

Main Warehouse

ST244A

33

48560

33

4

D3635-1		Manufactured	No			110	Each	25.0000	4.0000			
---------	--	--------------	----	--	--	-----	------	---------	--------	--	--	--



Gasket



10-2-4 sl

Warehouse Loc Qty Loc Code
Location

Main Warehouse

ST

25

44175

5

52914

20

4

D3635-3		Manufactured	No			110	Each	16.0000	8.0000			
---------	--	--------------	----	--	--	-----	------	---------	--------	--	--	--



Gasket



10-2-4 sl (4)

Warehouse Loc Qty Loc Code
Location

Main Warehouse

ST

16

47580

16

8

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Shop Packet Print

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Picklist Print

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Work Order ID: 55901



Parent Item: D350-561-141



Parent Item Name: Single Cargo Mirror Assembly

Start Date: 2/05/10

Required Date: 2/05/10

Comments: IPP A: 07.07.26 new issue (DSI9379) EC verified by:JLM

Start Qty: 4.00

Required Qty: 4.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Remaining Qty To Pick	Qty Issued	Date Issued	Status
---------------------------------	------------------------	---------------	-------------	---------------------	------------------	-----------------	--------------------	----------------	--------------------------	---------------	----------------	--------

D3646-1		Manufactured	No			110	Each	20.0000	4.0000			
---------	--	--------------	----	--	--	-----	------	---------	--------	--	--	--



6
+ Arm



10-2-4

SL

Warehouse Location	Loc Qty	Loc Code
-----------------------	---------	----------

Main Warehouse

ST

6

51617

6

Main Warehouse

ST229

14

52659

8

53892

6

4

D3646-3		Manufactured	No			110	Each	21.0000	4.0000			
---------	--	--------------	----	--	--	-----	------	---------	--------	--	--	--



S
+ Arm



10-2-4

SL (4)

Warehouse Location	Loc Qty	Loc Code
-----------------------	---------	----------

Main Warehouse

ST

21

47719

5

51615

8

52668

8

4

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Work Order ID: 55901



Parent Item: D350-561-141



Parent Item Name: Single Cargo Mirror Assembly

Start Date: 2/05/10

Required Date: 2/05/10

Comments: IPP A1 07.07.26 new issue (DSI9379) EC verified by:JLM

Start Qty: 4.00

Required Qty: 4.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Remaining Qty To Pick	Qty Issued	Date Issued	Status
MS21042L3		Purchased	No			110	Each	2,811.000	24.0000			



5
N1 Nut



10-2-4

sl

Warehouse
Location

Loc Qty

Loc Code

Main Warehouse

ST

2811

110844

35

111274

27

111668

52

112314

289

112385

498

113523

210

113537

700

113644

1000

24

MS21042L4



5
N1 Nut

Purchased

No

110

Each

2,883.000

8.0000



10-2-4

sl

40

Warehouse
Location

Loc Qty

Loc Code

Main Warehouse

ST

2883

102552

6

104248

6

110507

184

111827

1687

113422

1000

15924

0

8

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Work Order ID: 55901



Parent Item: D350-561-141



Parent Item Name: Single Cargo Mirror Assembly

Start Date: 2/05/10

Required Date: 2/05/10

Comments: IPP All 07.07.26 new issue (DSI9379) EC verified by:JLM

Start Qty: 4.00

Required Qty: 4.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Remaining Qty To Pick	Qty Issued	Date Issued	Status
MS21919-WDG7		Purchased	No			110	Each	27.0000	8.0000			



S
fy

Clamp



10-2-8

SP (4x)

Warehouse

Loc Qty

Loc Code

Location

Main Warehouse

ST

27

112933

7

113064

10

113368

10

7

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Shop Packet Print

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DESIGN <i>B</i>	DRAWN BY <i>DC</i>	DART AEROSPACE LTD. HAWKESBURY, ONTARIO, CANADA	
CHECKED <i>UE</i>	APPROVED <i>MF</i>	DRAWING NO. DSI 9379	REV. B SHEET 1 OF 5
DATE 07.11.26		TITLE CARGO MIRROR UPGRADE KIT	SCALE NTS
A	07.07.10	NEW ISSUE	
B	07.11.26	MS21919WDG7 WAS MS21929WDG7	

REFERENCE-ONLY

DART SERVICE INSTRUCTION

TO AMEND INSTALLATION INSTRUCTIONS D350-561 REV. C

REF. CANADIAN STC: SH91-20 ISSUE 2

REF. FAA STC: SH856NE

To reduce vibration, Dart has developed the D350-561-141/-143 Mirror Installations to replace the D350-561-041/-043 Mirror Installations. For customers with D350-561-041/-043 Mirror Installations at CHG 005 or earlier who would like to upgrade their installation, the DSI 9379-011 Upgrade Kit can be obtained from Dart. The components for DSI 9379-011 Kit are as defined in Section 1.0 below.

Customers upgrading their installation from D350-561-041/-043 to D350-561-141/-143 should follow instructions given in Figures 1 through 5 of DSI 9379 and refer to Installation Instructions D350-561 Rev. C as applicable.

Customers who are installing a D350-561-141/-143, should refer to Figures 2 through 5 of DSI 9379 and refer to Installation Instructions D350-561 Rev. C as applicable.

1.0 PARTS LIST

Qty -141	Qty -143	Qty -045	Qty -011	Part Number	Description
X	1			D350-561-141	SINGLE MIRROR INSTALLATION (REPLACES -041)
	X			D350-561-143	DUAL MIRROR INSTALLATION (REPLACES -043)
	1	X		D350-561-045	MIRROR KIT
			X	DSI 9379-011	UPGRADE KIT
1		1		D2011-101	MIRROR
1				D2012-105	ARM
1				D2012-107	CLEVIS
1				D2012-111	BRACKET
		2		D2012-113	CLAMP
1				D2012-115	BRACKET
2				D2022-101	SPACER
1*		1*		D3014-1	LOCKNUT
1			1	D3629-1	BRACKET
1			1	D3635-1	GASKET
2			2	D3635-3	GASKET
1			1	D3646-1	ARM
1			1	D3646-3	ARM
3			3	AN3-4A	BOLT
2			2	AN3-5A	BOLT
1				AN3-6A	BOLT
1				AN4-5A	BOLT
1				AN4-10A	BOLT
12			10	AN960JD10	WASHER
4				AN960JD416	WASHER
1*		1*		AN960JD416L	WASHER
6			5	MS21042L3	NUT (OR MS21042-3)
2				MS21042L4	NUT (OR MS21042-4)
2			2	MS21919WDG7	CLAMP

*INCLUDED AS PART OF D2011-101 MIRROR

CANADA
DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-O-01

APPROVED

BY: *D. Shepherd*
D. SHEPHERD (DE # 02)

DATE: 07.11.30
CERT. NO.: SH91-20
ISSUE NO.: 2

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W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

REFERENCE ONLY

4. WEIGHT AND BALANCE

Installation	Weight	LATERAL		LONGITUDINAL	
		Arm	Moment	Arm	Moment
D350-561-041	2.5 lb	+39.0 in	+97.5 in-lb	9.0 in	22.5 in-lb
Single Mirror Installation	1.1 kg	+0.99 m	+1.09 m-kg	0.23 m	0.25 m-kg
D350-561-043	3.2 lb	+40.0 in	+128.0 in-lb	8.8 in	28.2 in-lb
Dual Mirror Installation	1.5 kg	+1.02 m	+1.53 m-kg	0.22 m	0.33 m-kg

5. PARTS LIST

Qty -041	Qty -043	Qty -045	Part Number	Description
X	1	1	D350-561-041	SINGLE MIRROR INSTALLATION
	X		D350-561-043	DUAL MIRROR INSTALLATION
	1	X	D350-561-045	MIRROR KIT
1		1	D2011-101	Mirror
1			D2012-101	Arm
1			D2012-103	Arm
1			D2012-105	Arm
2			D2012-107	Clevis
1			D2012-109	Bracket
1			D2012-111	Bracket
4		2	D2012-113	Clamp
1			D2012-115	Bracket
4			D2022-101	Spacer
4		2	D2856-100-325	Abrasion Strip
1*		1*	D3014-1	Locknut
2		1	AN3-4A	Bolt
2		1	AN3-5A	Bolt
1			AN3-6A	Bolt
3			AN4-5A	Bolt
2			AN4-10A	Bolt
14		6	AN960JD10	Washer
9		2	AN960JD416	Washer
1*		1*	AN960JD416L	Washer
5		2	MS21042L3	Nut (or MS21042-3)
5			MS21042L4	Nut (or MS21042-4)

*INCLUDED AS PART OF D2011-101 MIRROR

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Revision: C

Date: 05.06.13

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries